

GenCore version 5.1.4_p5_4578
 Copyright (c) 1993 - 2003 Compugen-Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 30, 2003, 00:35:07 ; Search time 242.403 Seconds

(without alignments) 12984.233 Million cell updates/sec

Title: US-09-768-781-2
 Perfect score: 1389

Sequence: 1 atgaaacaaaggccacaaca.....caaggccaaaatgttgtctgaa 1389

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125939159 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%
 Listing First 45 summaries

Minimum Match 100%

Listing First 45 summaries

Database :

N_Geneseq_101002: *

```

1: /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1980.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1981.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1982.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1983.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1984.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1985.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1986.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1987.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1988.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1989.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1990.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1991.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1992.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1993.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1994.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1995.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1996.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1997.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1998.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA1999.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA2000.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA2001.DAT:*
  /SIDS2/gcadata/geneseq/geneseqn-emb1/NA2002.DAT:*
  
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	526.8	37.9	532	24	ABL89709		Human polynucleotid
2	515.4	37.1	531	23	ABK41708		cDNA encoding novel
3	291.2	21.0	5096	24	ABL61686		Stomach cancer related
4	283.6	20.4	5215	24	ABNS9395		Novel human coding
5	272.2	19.6	668	22	ABA46382		Human breast cell
6	272.2	19.6	668	22	ABA61445		Human foetal liver
7	272.2	19.6	668	22	ABA31582		Probe #10048 for g
8	272.2	19.6	668	22	AAK12903		Human brain express
9	272.2	19.6	668	22	AK38630		Human bone marrow

OS Homo sapiens.
 XX WO200190304-A2.

XX

PD 29-NOV-2001.

XX

PF 18-MAY-2001; 2001WO-US16450.

XX

PR 19-MAY-2000; 2000US-205515P.

XX

PA (HUMAN GENOME SCI INC.

XX

PI Birse CE, Rossen CA;

XX

DR WPI; 2002-122018/16.

DR DR P-PSDB; ARBB89330.

ALIGNMENTS

RESULT 1
 ID ABL89709 standard; cDNA; 532 BP.
 XX DT 24-MAY-2002 (first entry)
 DE Human polynucleotide SEQ ID NO 271.

Cytosatric; immunosuppressive; nootropic; neuroprotective; antiviral;
 antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
 vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
 cardiot; gene therapy; cancer; immune disorder; cardiovascular disorder;
 neurological disease; infection; human; secreted protein; gene; ss.
 XX OS Homo sapiens.

XX

XX Novel 1405 isolated polypeptides, useful for diagnosis, treatment and prevention of neural, immune system, muscular, reproductive, pulmonary, gastrointestinal, cardiovascular, renal and proliferative disorders -

XX

PS Claim 4; SEQ ID NO 271; 2081pp + Sequence Listing; English

CC The invention relates to novel genes (ABL89449-AB190853) and proteins (ABB89040-ABB0444), useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant) agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.

CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published_pct_sequences.

XX

SQ Sequence 532 BP; 109 A; 129 C; 121 G; 168 T; 5 other;

Query Match 37.9%; Score 526.8; DB 24; Length 532;

Best Local Similarity 98.9%; Pred. No. 5e-151;

Matches 525; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 786 GGAGATCACTTCCGCCTCTGATCTGGCTCTTCAGCCATTGAAATTGAAGGC 845
2 GGAGATCACTTCCGCCTCTGATCTGGCTCTTCAGCCATTGAAATTGAAGGC 61

DB 846 TGTGCCCTTCTTAAGTGCAACTCTCTGATCATCTCTGTTGAGCCCTGGATTAGTTCTG 905
62 TGTGCCCTTCTTAAGTGCAACTCTGATCATCTCTGTTGAGCCCTGGATTAGTTCTG 121

QY 906 GAGAAGTGTGCCAGATGCCAAATAAACATTGAGAAAACATTGAGCCTTCGGCACACT 965
182 GGTTGGTCCCTGATTTCACTGCAACCTCTPATGCGGCACTCAACTCTCTGGTCAAC 241.

DB 122 GAGAAGTGTGCCAGATGCCAAATAAACATTGAGAAAACATTGAGCCTTCGGCACACT 181.

QY 966 GGTCCTGCTGATTAGTCACTCATCTPATGCGGCACTCAACTCTCTGGCTGGTCAAC 1025
DB 1026 TTTCAGTTGAGTTGGCACAGAGATCTGTCGACAAGGGAGAACTGGGACATAT 1085
242 TTTCAGTTGAGNNNGGAGAGATCTGTCACAAGGGAGAACTGGGACATAT 301.

QY 1086 GGGCTGCACTATAGTGTAGGTCTGAGAATCTGATCATGGCTCTTGTTTTAAGT 1145
362 CTWTTGGAGTGAAGTGKTACTGATTACCTGTCATGGCTTCGAGTCACTGGTCAAC 421.

DB 1206 TGCTTATCTGATTCATGGCTCATGGCTCATGGCTCTTGTTCTCCAGTACTGGCATCATGGC 1265
302 GGCCCTGCACTATAGTGTAGGTCTGAGAATCTGATCATGGCTTCGAGTCACTGGC 361.

QY 1146 CTTGGAGTGAAGTGTTAGTAACTGTCATGGCTCATGGCTCTTGTTCTGGCTGGCTCATTT 1205
DB 422 TGCTTATCTGATTCATGGCTCATGGCTCATGGCTTCGAGTACTGGCATCATGGC 481.

QY 1266 CTCACCTCTCACCCATAATGTTAGTAGACTACCTCATGGCTGGCTGTGCA 1316
DB 482 CTCACTCTCACCCATAATCTAGPAGACCTGGCTCATGGCTGTGCA 532.

XX AC ABK41708;
XX YY DT 21-MAY-2002 (First entry)
XX DE CDNA encoding novel human connective tissue related polypeptide #96.
XX KW Human; connective tissue related disorder; cancer; gene therapy;
cytostatic; gene; ss.
XX OS Homo sapiens.
XX PN WO200155343-A1.
XX PD 02-AUG-2001.
XX PR 17-JAN-2001; 2001WO-US01322.
XX PR 31-JAN-2000; 2000US-0179065.
XX PR 04-FEB-2000; 2000US-0180628.
XX PR 24-FEB-2000; 2000US-0184664.
XX PR 02-MAR-2000; 2000US-0188350.
XX PR 16-MAR-2000; 2000US-0189874.
XX PR 17-MAR-2000; 2000US-019076.
XX PR 18-APR-2000; 2000US-0198123.
XX PR 19-MAY-2000; 2000US-020515.
XX PR 07-JUN-2000; 2000US-0209467.
XX PR 28-JUN-2000; 2000US-021486.
XX PR 30-JUN-2000; 2000US-0215135.
XX PR 07-JUL-2000; 2000US-021647.
XX PR 07-JUL-2000; 2000US-0216880.
XX PR 11-JUL-2000; 2000US-0217487.
XX PR 11-JUL-2000; 2000US-0217496.
XX PR 14-JUL-2000; 2000US-0218290.
XX PR 26-JUL-2000; 2000US-0220963.
XX PR 14-AUG-2000; 2000US-0224518.
XX PR 14-AUG-2000; 2000US-0224519.
XX PR 14-AUG-2000; 2000US-02245213.
XX PR 14-AUG-2000; 2000US-0225214.
XX PR 14-AUG-2000; 2000US-0225266.
XX PR 14-AUG-2000; 2000US-0225267.
XX PR 14-AUG-2000; 2000US-0225268.
XX PR 14-AUG-2000; 2000US-0225270.
XX PR 14-AUG-2000; 2000US-0225271.
XX PR 22-AUG-2000; 2000US-0225447.
XX PR 14-AUG-2000; 2000US-0225757.
XX PR 14-AUG-2000; 2000US-0225758.
XX PR 14-AUG-2000; 2000US-0225759.
XX PR 18-AUG-2000; 2000US-0226279.
XX PR 14-AUG-2000; 2000US-0226681.
XX PR 22-AUG-2000; 2000US-0226868.
XX PR 22-AUG-2000; 2000US-0227182.
XX PR 23-AUG-2000; 2000US-0227009.
XX PR 30-AUG-2000; 2000US-0228924.
XX PR 01-SEP-2000; 2000US-0229287.
XX PR 06-SEP-2000; 2000US-0230437.
XX PR 08-SEP-2000; 2000US-0230438.
XX PR 01-SEP-2000; 2000US-0229344.
XX PR 01-SEP-2000; 2000US-0229345.
XX PR 05-SEP-2000; 2000US-0229309.
XX PR 05-SEP-2000; 2000US-0229513.
XX PR 06-SEP-2000; 2000US-0230437.
XX PR 08-SEP-2000; 2000US-0231142.
XX PR 08-SEP-2000; 2000US-0231143.
XX PR 12-SEP-2000; 2000US-0231968.
XX PR 14-SEP-2000; 2000US-0232397.
XX PR 14-SEP-2000; 2000US-0232398.
XX PR 14-SEP-2000; 2000US-0232399.

PR 14-SEP-2000; 2000US-0232400.
 PR 14-SEP-2000; 2000US-0232400.
 PR 14-SEP-2000; 2000US-0233063.
 PR 14-SEP-2000; 2000US-0233064.
 PR 14-SEP-2000; 2000US-0233065.
 PR 21-SEP-2000; 2000US-0234223.
 PR 25-SEP-2000; 2000US-0234274.
 PR 25-SEP-2000; 2000US-0234997.
 PR 26-SEP-2000; 2000US-0234998.
 PR 27-SEP-2000; 2000US-0235484.
 PR 27-SEP-2000; 2000US-0235836.
 PR 29-SEP-2000; 2000US-0236327.
 PR 29-SEP-2000; 2000US-0236367.
 PR 29-SEP-2000; 2000US-0236368.
 PR 29-SEP-2000; 2000US-0236369.
 PR 02-OCT-2000; 2000US-0236370.
 PR 02-OCT-2000; 2000US-0236802.
 PR 02-OCT-2000; 2000US-0237037.
 PR 02-OCT-2000; 2000US-0237038.
 PR 02-OCT-2000; 2000US-0237039.
 PR 13-OCT-2000; 2000US-0239935.
 PR 13-OCT-2000; 2000US-0239937.
 PR 20-OCT-2000; 2000US-0240950.
 PR 20-OCT-2000; 2000US-0241221.
 PR 20-OCT-2000; 2000US-0241795.
 PR 20-OCT-2000; 2000US-0241796.
 PR 20-OCT-2000; 2000US-0241787.
 PR 20-OCT-2000; 2000US-0241808.
 PR 20-OCT-2000; 2000US-0241809.
 PR 01-NOV-2000; 2000US-0241846.
 PR 08-NOV-2000; 2000US-0244617.
 PR 08-NOV-2000; 2000US-0246474.
 PR 08-NOV-2000; 2000US-0246475.
 PR 08-NOV-2000; 2000US-0246476.
 PR 08-NOV-2000; 2000US-0246477.
 PR 08-NOV-2000; 2000US-0246478.
 PR 08-NOV-2000; 2000US-0246523.
 PR 08-NOV-2000; 2000US-0246534.
 PR 08-NOV-2000; 2000US-0246545.
 PR 08-NOV-2000; 2000US-0246556.
 PR 08-NOV-2000; 2000US-0246557.
 PR 08-NOV-2000; 2000US-0246558.
 PR 08-NOV-2000; 2000US-0246532.
 PR 08-NOV-2000; 2000US-0246609.
 PR 08-NOV-2000; 2000US-0246610.
 PR 08-NOV-2000; 2000US-0246611.
 PR 17-NOV-2000; 2000US-0246613.
 PR 17-NOV-2000; 2000US-0249207.
 PR 17-NOV-2000; 2000US-0249208.
 PR 17-NOV-2000; 2000US-0249214.
 PR 17-NOV-2000; 2000US-0249215.
 PR 17-NOV-2000; 2000US-0249216.
 PR 17-NOV-2000; 2000US-0249217.
 PR 17-NOV-2000; 2000US-0249218.
 PR 17-NOV-2000; 2000US-0249244.
 PR 17-NOV-2000; 2000US-0249245.
 PR 17-NOV-2000; 2000US-0249246.
 PR 01-DEC-2000; 2000US-0250160.
 PR 05-DEC-2000; 2000US-0250191.
 PR 05-DEC-2000; 2000US-0251030.
 PR 05-DEC-2000; 2000US-0251988.
 PR 05-DEC-2000; 2000US-0256719.

PR 06-DEC-2000; 2000US-0251479.
 PR 08-DEC-2000; 2000US-0251856.
 PR 08-DEC-2000; 2000US-0251869.
 PR 08-DEC-2000; 2000US-0251989.
 PR 11-DEC-2000; 2000US-0251990.
 PR 01-JAN-2001; 2000US-0259678.
 XX PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Roben CA, Barash SC, Ruben SM;
 XX
 DR WPI; 2001-565190/63.
 DR P-PSDB; AAU86530.
 XX
 PT Nucleic acid encoding novel connective tissue associated polypeptides, used in diagnosing, preventing, treating or ameliorating a disorder such as cancer or rheumatoid arthritis -
 XX
 Claim 4 ; SEQ ID No 106 ; 673pp; English.
 PS
 XX
 CC The present invention relates to the isolation of novel human connective tissue related polypeptides (AAU86435-AAU6923) and the polynucleotide (cDNA and genomic) sequences encoding them. The sequences of the invention are useful in the diagnosis, treatment, prevention and/or prognosis of diseases associated with connective tissue(s), including cancer. The polynucleotide sequences of the invention are also useful in gene therapy. ABK41613 -ABK42101 represent cDNA sequences encoding the novel human connective tissue related polypeptides.
 CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
 XX
 Sequence 531 BP; 109 A; 128 C; 121 G; 168 T; 5 other;
 SQ Query Match 37.1%; Score 515.4 ; DB 23; Length 531;
 Best Local Similarity 98.7%; Prd. No. 1.6e-147;
 Matches 524; Conservative 5; Mismatches 1; Indels 1; Gaps 1;

Qy	786	GGAGATCACTTCCCTTAAGTGCTCAACTTCCCTGATCATCCPCTTTGAGCCCTTGATGAATTGAGTCCTGC 845
Db	2	GGAGATCACTTCCCGCTCTCTGATTCTGGCTCTCTAGCCACTTGTGAATTGAGTCCTGC 61
Qy	846	TGTGCCCTTCCCTTAAGTGCTCAACTTCCCTGATCATCCPCTTTGAGCCCTTGATGAATTGAGTCCTGC 905
Db	62	TGTGCCCTTCCCTTAAGTGCTCAACTTCCCTGATCATCCPCTTTGAGCCCTTGATGAATTGAGTCCTGC 121
Qy	906	GAGAAGTGGTGGCCAGATGCCAATAACATGAGAAAACCTCAGCCGGTGGCACTCT 965
Db	122	GAGAAGTGGTGGCCAGATGCCAATAACATGAGAAAACCTCAGCCGGTGGCACTCT 181
Qy	966	GTCGGTCTGATTCTACTCACCATTCCCTTAAGTGCTGGCATCACTCTCTGCTGGACATATCTGGCTGTCAGC 1025
Db	182	GTCGG-TCTGATTCTACTCACCATTCCCTTAAGTGCTGGACATATCTGGCTGTCAGC 240
Qy	1026	TTTGCAGTTGAGGTTGGAGAGATCTGGCATCAAGAGATCTGGCATCAAGAGACTGGGACATAT 1085
Db	241	TTCGACTTGGAGGTTGGAGAGATCTGGCATCAAGAGATCTGGCATCAAGAGACTGGGACATAT 300
Qy	1086	GGCCCTGCACTATAGTGTTGAGTTGAGATGTGATCAGGTCTGGTTTAAGT 1145
Db	301	GGGCCCTGCACTATAGTGTTGAGTTGAGATGTGATCAGGTCTGGTTTAAGT 360
Qy	1146	CITTCGGAGTGAAGTGAAGTGTGATTACTGTCATTCTCTGGATTGCGCTCATTA 1205
Db	361	CITWTGGAGTGAAGTGTGATTACTGTCATTCTCTGGATTGCGCTCATTA 420
Qy	1206	TGCTTATCTGATTTCATTTCCCTGAGTACTCCGAGTACTCCATCCATTCG 1265
Db	421	TGCTTATCTGAGTTCCATTGGTTCATGCTCTTCTTCGGTACTTGCGCTGCTCA 1316

Qy	754	GAAGTCCTCTGCATCACCATCTGGGGACATTGGAGATCACTTCCGGCCTCTGATTCTG	813	DR	XX	P-PSDB; ABB97282.
Db	701	GCCATCGATCTCTCCGTGATCTCCGTGAGGCTTGATTGCCAACATCGAGTGTACTCC	760	PT	PT	An isolated polynucleotide for treating diseases associated with its encoded polypeptide such as cancer and multiple sclerosis -
Qy	814	GTGGCTTCTCAGGCCACTTGAAATTGAAAGCTGCTGAGCTCCCTAGTGTCAAATCCTG	873	XX	XX	Claim 1; SEQ ID NO 106; 509pp; English.
Db	761	GTCTCTTAACTCTGGCTCTGAAACCTGGTGGTTATAACTCATCAACTCTTC	820	PS	PS	The present invention provides the protein and coding sequences of 444 novel human proteins. These were isolated from expressed sequences tags (ESTs). They can be used to stimulate cell growth, to regulate haemopoiesis e.g. to treat aplastic anaemia, to help tissue regrowth e.g. in burn treatment, to regulate the immune system e.g. to treat multiple sclerosis, to regulate activin or inhibit e.g. to treat infertility, to regulate haemostasis or thrombolysis e.g. to treat stroke and cancer, to screen for drugs, to treat inflammatory conditions e.g. rheumatoid arthritis and to treat nervous disorders e.g. Parkinson's disease. The present sequence is a coding sequence of the invention.
Qy	874	ATCACCTCTTGAACCCCTGATAATTAAGTCTGGAGAAGTGGTCCATGAGCTAAAC	933	CC	CC	
Db	821	AGTCTCTTGTACCCCTGATCTCTGGAGTGGTCACTATGTTAACCTTACTTC	880	CC	CC	
Qy	934	ATTCAGAAAACCTAGCCGGTCSGGACTCTGGTGGTCTGATTCACTACATCCTC	993	CC	CC	
Db	881	ATAGAGAAGCCCCTAGTAGTGGCACCACCATGTTAACCTTACTTC	940	CC	CC	
Qy	994	TATGGGGCATCAACTCTCTGGTGGTCACTTGAGTGAATTGGAGAGAGAT	1053	CC	CC	
Db	941	TATACTGGPATCACATGTTCTGGTGTGTTACAGCTGAATAATTGAGCAGCC	1000	XX	XX	Sequence 5215 BP; 1458 A; 1058 C; 1035 G; 1664 T; 0 other;
Qy	1054	CTCGTCGACAAGGGCAGAACTGGGACATATGGGCTGCACTATAGTGTGAGGTG	1113	SQ	SQ	Score 283.6; DB 24; Length 5215;
Db	1001	CTCATCAGCAAGTCCCATAATTGGTACCAAGCTACTGGTGTATTACGATAAGTC	1060	Query Match 20.4%; Best Local Similarity 55.5%; Pred. No. 9e-76; Matches 594; Conservative 0; Mismatches 464; Indels 12; Gaps 2;		
Qy	1114	GAGATGTTGATCATGGCTGGTTAAAGTTGGACTTGGAAAGTGTACTGATTAC	1173	Qy	235	TGGATGACATACACCTTTCTTCTTATGTTTCACTCCATTATGTCATCTAATC
Db	1061	GAGATGCCATCCCTCCCTCCCTGGTGTGTTAAAGTGTACTGATTAC	1120	Db	307	TGGCGAGGGCTGACGTTGGCTTCTGGCTACTGCCCTGGCCCTGACGCT
Qy	1174	TGTTATTCCTTGATTTGCTTGAGCTTCAATTGGCTTATCTGATTTCCTGATC	1213	Qy	295	ATTTTGTCACAGAGATCTAGCCAAAGATAAAACCGCTATCATTTATGTCAT
Db	1121	TGCCACCTCTGTGTTGGCTGAGCTGCTTAAAGTGTACTGATTAC	1180	Db	367	CCTCTGTAACCGGACCTAGGCCGAACTCTGACTGTCGACCTGCTG
Qy	1214	CTCTTCTTCCGACTTGCACTCATGCTGCTGACTCTCACCTCATATGTTAGAC	1293	Qy	355	CTCTGGACCTGTTACAGATGTTGGAGGCCATGATTAGTACCTCACACTG
Db	1181	CTTGTATTCTCATCTCTTCCACCTTCTTCCACTGAAAGCTCTTCTGAA	1240	Db	427	CAACTGGCCCTTTCACTGTTGAAGCTCTGCTACTTC-----AG
Qy	1294	TACCTCCA 1301		Qy	415	AAAGGGGAGGAGGAGGAGGCCATTGAGCTTACCCATGAAAGAAGAAG
Db	1241	GGCTTCA 1248		Db	478	TCAAGCAACATGAGAGGCTTATSTCATATCAGAAAGAGGGTAAATC
Qy				Qy	472	GGCGAGGGGGGGCTGATGAGATGGAGGTTGGCCACTCGGCTATGCAC
Db				Db	538	GGCTCTCAGGGAGATTGAGGGTGGCGGGTGGTGGCTGACCTCCAGCTG
Qy				Qy	532	CGCAATGCCAACAAAGCTATGTCAGATCCAAGCTTCTGGCTTCTGCA
Db				Db	598	CGATCAGCGTTCAGGGGGCTGCTGATGGTCACTGGCTTCTGGCT
Qy				Qy	592	ACCTATCAGCTCATGAGCTGATCTGGCTGAGGGTCCCTGGTAGTTG
Db				Db	658	ACCCATACGGTGTACATAATGTCAGGAGGCTGTTGGCTGAAAGT
Qy				Qy	652	ATGGTATTTCCTCTGATCTGTCACCTGCTGAGATCTGGCTAT
XX				Db	718	ATGACCATATCCCTGTTGTCATCTGTTGGCTGACATCTAGC
ABN59695				Qy	712	CAGATCAAGTACGATGTCAGATGCTGAGTTGGCCCATAGTCAGTC
ID	ABN59695	standard; cDNA; 5215 BP.		Db	778	AAAATCAAGTACGATGAGTGAAGTCAAGTCCCTGCTATGCTG
AC				XX	837	21-MAR-2002.
DT	28-JUN-2002	(first entry)		Qy	772	ATCTGGGGCATATGGAGATCACTTCCGGCTCTGGTCTCTAGC
XX				Db	838	8-SEP-2001; 2001W0-US26015.
DE		Novel human coding sequence SEQ ID NO: 106.		Qy	832	11-SEP-2000; 2000US-0659671.
XX				Db	898	(HYSEQ-) HYSEQ INC.
OS		Homo sapiens.		Qy	892	TGGATTAAGTCTGAGAGTGGTCCGAGATGCCCCATACATGAGAA
XX				Db	958	951
PN				XX		Xue AJ, Yang Y, Wehrman T, Drmanac RT;
XX				XX		Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;
PD				DR		WPI; 2002-292408/33.

Qy 952 CGGGTGGGCACTCTGGTCCTGATTCTGTCACCATCCTATGGCATCAACTC 1011
 Db 1018 AGACTGGGACCACTTGTACTATGCTTTCTAATTCTACTATTAACATG 1077
 Qy 1012 TCTTGCTGGTCAGGTTGCAAGAGATCTGTGTCACAAGAGCG 1071
 Db 1078 TTCTGCTGGTCAGGTTGCAAGAGATCTGTGTCACAAGCCCTGACCTCATCGAACATGTCCT 1137
 Qy 1072 AACTGGGACATATGGCCGCACTATAGTGAGGTTGGTAGAAATGTGATGATGTC 1131
 Db 1138 AATGGTACAGCAGTGGTATTACATGATAAGATCATGGAAATGCCATCCCTC 1197
 Qy 1132 TTGGTTTTAAGTCTTGGAGTAAAGCTTACTGAAATCTGATGTCATTGCC 1191
 Db 1198 CTCTGTGGTATCTTCAAGACGACATATGATGATGTCATTGCCACTTGGTC 1257
 Qy 1192 TTGAGCTATTATGCTPATCTGATTGCTCATGGCTTCTTCAGTAC 1251
 Db 1258 CTGGAGCTGCTCATGGPACTGGCACGCCATTCTCATGCTGTATCTPATAGTTC 1317
 Qy 1252 TTGCATCCATTGGCTCAGCTTCAACCCATAATGAGAATCTCCA 1301
 Db 1318 TTCCACCCCTGCAAAAAGCTTTCTTCAGITGTTCTGAAGGGTTCA 1367

RESULT 5

ABA46582 standard; DNA; 668 BP.
 XX ABA46582
 AC XX 01-FEB-2002 (first entry)
 DE Human breast cell single exon nucleic acid probe #5277.
 KW Human; microarray; single exon probe; gene expression; breast;
 disease; cancer; ss.
 XX OS Homo sapiens.
 XX PN WO200157271-A2.
 XX PD 09-AUG-2001.
 XX PF 30-JAN-2001; 2001WO-US00662.
 XX PR 04-FEB-2000; 2000US-0180312.
 PR 06-MAY-2000; 2000US-020456.
 PR 30-JUN-2000; 2000US-060840.
 PR 03-AUG-2000; 2000US-063366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0233559.
 PR 04-OCT-2000; 2000GB-0024263.

(MOLE-) MOLECULAR DYNAMICS INC.

XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX DR WPI; 2001-496933/54.
 XX PT New spatially-addressable set of single exon nucleic acid probes,
 PT useful for measuring gene expression in sample derived from human
 PT breast, comprises number of single exon nucleic acid probes -
 XX

PS Claim 4; SEQ ID NO 5277; 327bp + sequence listing; English.
 XX CC The invention relates to a spatially-addressable set of single exon
 CC nucleic acid probes for measuring gene expression in a sample derived
 CC from human breast and BT 474 cells. The method involves contacting
 CC the probes with a collection of detectably labelled nucleic acids
 CC derived from mRNA of human breast, and then measuring the label
 CC bound to each probe of the microarray. The probes are useful for
 CC verifying the expression of regions of genomic DNA predicted to

CC encode proteins. They are useful for gene discovery, and for
 CC determining predisposition and/or prognosising breast disease. Gene
 CC expression analysis is useful for assessing the toxicity of chemical
 CC agents on cells. The microarray of this invention presents a far greater
 CC diversity of probes for measuring gene expression, with far less bias
 CC than expressed sequence tag microarrays. The method is suitable for
 CC rapid production of functional information from genomic sequence. The
 CC present sequence is a single exon nucleic acid probe of the invention.
 CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
 XX SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
 Query Match 19 6%; Score 272 2; DB 22; Length 668:
 Best Local Similarity 65 3%; Pred. No. 8.4e-73;
 Matches 400; Conservative 0; Mismatches 213; Indels 0; Caps 0;
 Db 2 Atttttcccmgtatctgtacacttatgggcccacccttgcataatgttgccatccagat 716
 Qy 657 ATTTCGCCMGTATCTGTACACTATGGGCCCACCCCTTGCATAATGTGGCATCCAGAT 716
 Db 62 CAGGAATGATGATGACTACCATTAGCTACAGATGATGATGATGATGATGATGATGATG 121
 Qy 777 GCGGACATGGAGACACTTCCGGCTCTCTGATTTCTGACCCACTTGTGA 836
 Db 122 GCGTTTTCAGGTATCTCACGTAGTACTGGCATTTTCATTCATCTGTGAA 181
 Qy 837 ATTGAGGCTGTGCCTTCTAGTGCTCAACTTCTGTATACTCTGAGCCCTGGAT 896
 Db 182 ACTGAGAGCTTACCGTTTGTATGTATATTTGATCATGTTGTCACCCGGGGCT 241
 Qy 897 TAAGTTCTGGAGAAGTGGTCCAGATGCAATAACATTGAGAAAATCTAGCGGGT 956
 Db 242 GGAGTTGAAAGTGGAGCTCATCTGGACAAAGGAAATAATTCAAATATGGT 301
 Qy 957 CGGCACACTCTGGTCCCTGATTTAGTCACCATCTCTPATGCTGSCATCACTCTCTG 1016
 Db 302 GGGPACAGCPACTGATGCTTTCTGTATGCTGATCATGTTCTCCCTG 361
 Qy 1017 CTGGTCAGCTTGGAGTCTGGAGTCTGGCAGAGATCTGTCGACAAAGGGCAGAACGT 1076
 Db 362 CTGGTCAGAGTGGAAACTGCACTGTTGTCAGATGACAAATGGTGTGAG 421
 Qy 1077 GGGACATATGGCTGCACTATAGTGTGAGCTTGTGAGAATGTGATCATGGTCTGGT 1136
 Db 422 GGGCCATAGATCTTACACTACAGCTTCTGTTTGAAGATGTGATATGGT 481
 Qy 1137 TTTPAAGTCTTTGGAGTGAAGTGTACTGAAATTACTCTCATCCCTTGTATTGCTCTTGC 1196
 Db 482 ATTTAGGTTCTGGAGAAAATCTTGTGTAATGCTATTATTTGCTGCG 541
 Qy 1197 GCTCATTTATGCTPATCAGTCACTGCTCATGCTCTTCTTCAGTACTTGC 1256
 Db 542 GCTCATCATAGTCACTGCTPATGCTGCACTGCTCTTCTCATGATTTGTA 601
 Qy 1257 TCCATTGGCTCA 1269
 Db 602 CCCATGGCACTCA 614

RESULT 6
 ABA6445
 ID ABA6445 standard; DNA; 668 BP.
 XX AC ABA6445;
 XX DT 01-FEB-2002 (first entry)
 XX DE Human foetal liver single exon nucleic acid probe #12750.
 XX XX

Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
 XX
 Homo sapiens.
 OS
 XX
 WO200157277-A2.
 XX
 PD 09-AUG-2001.
 XX
 PP 30-JAN-2001; 2001WO-US00669.
 XX
 PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608409.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX
 PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX
 DR 2001-483447/52.
 XX
 PT Human genome-derived single exon nucleic acid probes useful for
 PT analyzing gene expression in human fetal liver -
 XX
 PS Claim 4; SEQ ID NO 12750; 639pp + sequence listing; English.
 CC The invention relates to a single exon nucleic acid probe for
 CC measuring human gene expression in a sample derived from human foetal
 CC liver. The single exon nucleic acid probes may be used for predicting,
 CC measuring and displaying gene expression in samples derived from human
 CC fetal liver. The present sequence is a single exon nucleic acid
 CC probe of the invention.
 Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
 Query Match Score 272.2; DB 22; Length 668;
 Best Local Similarity 19.6%; Pred. No. 8.4e-73;
 Matches 400; Conservative 0; Mismatches 213; Indels 0; Gaps 0;
 Qy 657 ATTTCCTGGTATCCTATGGGCCACCCCTGGCATATGGGTATCCAGAT 716
 Db 2 ATTTCCTGGTATCCTATGGGCCATATCTGGCATCCAGAT 61
 Qy 717 CAAGTAGATGACTACAGAATTGCTCTTGCAACCACATCTG 776
 Db 62 CAGCAGTATGATACTACCAATTAGTACCGCAGATAATTCTGTGTGATGTG 121
 Qy 777 CGGACATTGGAGATCACTTCCGCCCTCTGATCTCGTGCCTCAGCCACTTGAA 836
 Db 122 CGTTTTGGAGTGTATCTGAGTGTATCTGCACTTTCATGCACTCTGAA 181
 Qy 837 ATGGAGCTGCTGGCCCTCTCTAGTGCTAACCTCTGATCATCTCTGGAT 896
 Db 182 ACTGAGAGGCCTAACCCGTTGTTGTAATCATATTGTTGATCATTTGTCGCT 241
 Qy 897 TAAGTTCTGGAAAGTGGCCAGATGCCAAATAGTGGAAAACCTGACCCGGT 956
 Db 242 GGAGTTGGAAAGTGGAGTGTATCTGCACTTTCATGCAAGAAAATTCCTGAT 301
 Qy 957 CGGCACTCTGGCTGCTGATTCAGTCACCATCCCTATGCTGGCATCAACTCTCTG 1016
 Db 302 CGGTACAGTACTGATGTTCTGTATCACACTGCTGCACTTTCATGCTCTG 361
 Qy 1017 CTGGTAGCTGCTGGAGTGGAGACAGAGATCTCGTGACAAAGGCCAGACTG 1076
 Db 362 CTGGTAGCTGAACTGCACTGAGTTGATGCAATGACGGAGACAGGGTG 421

XX
 Qy 1077 GGACATATGGCTGCACATAGTGTGGGTGAGAAATGTGATATGGCTCTGGT 1136
 Db 422 GGCCTATGAAATCCTACATACGCTTCAGTTGAAATGTGATAATGTGATTGGT 481
 Qy 1137 TTAAAGTCTGGAGTGAAGTGTACTGCAATTCTGATTCTGCTTGTGAA 1196
 Db 482 ATTAGTTCTTGGGGAAACTTCTGTAATGTTGCTGATTTGCTGATTTGGCTGGA 541
 Qy 1197 GCTCATTATGCTGATTCTGATTCATGGCTCATGCTCTTCTCAGTACTTGGTA 1256
 Db 542 GTCATCAAAGTACCTATGGCCACTTATGCTCTCTATGCTATTGCTGTTGTA 601
 Qy 1257 TCCATTGGCTCA 1269
 Db 602 CCCATGGGAGTCA 614
 XX
 RESULT 7
 ABA31582
 ID ABA31582 standard; DNA; 668 BP.
 XX
 AC ABA31582;
 XX
 DT 23-JAN-2002 (first entry)
 XX
 DE Probe #10048 for gene expression analysis in human heart cell sample.
 XX
 KW Human; gene expression; heart; microarray; vascular system; probe;
 KW cardiovascular disease; hypertension; cardiac arrhythmia;
 KW congenital heart disease; SS.
 XX
 OS Homo sapiens.
 XX
 PN WO200157274-A2.
 XX
 PD 09-AUG-2001.
 XX
 PP 30-JAN-2001; 2001WO-US00666.
 XX
 PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608409.
 PR 21-SEP-2000; 2000US-0632366.
 PR 27-SEP-2000; 2000US-0234687.
 PR 04-OCT-2000; 2000GB-0024263.
 XX
 PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX
 DR WPI; 2001-488899/53.
 XX
 PR Single exon nucleic acid probes for analyzing gene expression in human
 hearts -
 XX
 PS Claim 4; SEQ ID No 10048; 530pp; English.
 XX
 CC The present invention relates to single exon nucleic acid probes for
 CC measuring human gene expression in a sample derived from human heart. The
 CC present sequence is one such probe. The probes may be used for
 CC predicting, measuring and displaying gene expression in samples derived
 CC from the human heart via microarrays. By measuring gene expression, the
 CC probes are useful for predicting, diagnosing, grading, staging,
 CC monitoring and prognosing diseases of the human heart and vascular system
 CC e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
 CC congenital heart disease.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at [ftp.wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).
 XX
 SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

PR	27-SEP-2000; 200005-236359P.	Qy	837 ATTGAAGGGTGTGCCCTTCCTAGTGCTGACCTTCCTGATCATCCCTGAGCCCTGGAT 896
PR	04-OCT-2000; 200005B-0024263.	Db	182 ACTGAAGGCGCTAACCGTTGTTGTAATATAATTGATCATTTGTCACGGCAGTGGGT 241
XX	(MOLE-) MOLECULAR DYNAMICS INC.	Qy	897 TAAGTTCTGGAGAAGTGGTCCAGATGCCAAATAACATTGAGAAAACTTCAGCCGGGT 956
PA		Db	242 GGAGTTTGGAAAGTGGAGCTCATCCTCTGGAAACAAAGAAATAATTCATATGGT 301
XX	Penn SG, Hanzel DK, Chen W, Rank DR;	Qy	957 CGGCACCTCTGCTGCTGCTGACCATCTGCTGACCATCAACTCTCTG 1016
PI		Db	302 GGGTACAGTACTGCTATGCTTTCTGATCACACTGCTATPATGCTGCCATCAACTCTCTG 361
XX	Pi	Qy	1017 CTGGTCAGTTGGAGTTGGAGTGGTGGCAGAAGGAGATCTGTCGACAAGGGAGAACTG 1076
DR		Db	362 CTGGTCAGCGTGAAGACTGAGTGTGTCAGTGTGAGTGTGAGAGGGT 421
XX	Claim 4; SEQ ID No 12690; 63pp; English.	Qy	1077 GGACACATATGGGCTGCACTATAGTGAGGTTGAGAATSTGATCATGGCTCTGGT 1136
XX	Spatially-addressable set of single exon nucleic acid probes, used to measure gene expression in human lung samples -	Db	422 GGGCCATAGATCTTACACTACAGCTTCAGTTTGGAAATSTGATATGATATTGGT 481
PS		Qy	1137 TTATAGTTCTTNGAGTGAATGTTACTCATCCCTGATTCATGGCTTCCA 1196
XX	The invention relates to a spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived from human lung comprising single exon nucleic acid probes having one of 12614 nucleic acid sequences mentioned in the specification, or their complements or the 12387 open reading frames derived from the 12614 probes. Also included are a microarray comprising the novel set of probes, the novel set of probes which hybridise at high stringency to a nucleic acid expressed in the human lung; measuring gene expression in a sample derived from human lung, comprising (a) contacting the array with a collection of detectably labeled nucleic acids derived from human lung mRNA, and (b) measuring the label detectably bound to each probe of the array; identifying exons in a eukaryotic genome, comprising (a) algorithmically predicting at least one exon from genomic sequences of the eukaryote; and (b) detecting specific hybridisation of detectably labeled nucleic acids from eukaryote lung mRNA, to a single exon probe, having a fragment identical to the predicted exon, the probe is included in the above mentioned microarray; assigning exons to a single gene, comprising (a) identifying exons from genomic sequence by the method above and (b) measuring the expression of each of the exons in several tissues and/or cell types using hybridisation to a single exon microarrays having a probe with the exon, where a common pattern of expression of the exons in the tissues and/or cell types indicates that the exons should be assigned to a single gene; a peptide comprising one of 12011 sequences, mentioned in the specification, or encoded by the probe's open reading frames (ORF). The probes are used for gene expression analysis, and for identifying exons in a gene, particularly using human lung derived mRNA, and for the study of lung diseases such as asthma, lung cancer, chronic obstructive pulmonary disease (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease, Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary haemosiderosis, pulmonary histiocytosis, lymphangiomyomatosis, pulmonary alveolar proteinosis, Kartagener syndrome, fibrocytic dysplasia, primary ciliary dyskinesia, pulmonary hypertension and hyaline membrane disease. The present sequence is a single exon probe open reading frame of the invention.	Db	482 ATTTGGCTCTTGGAGGAAACCTTSGTGAATTGCTGACTCTGCGTGTCA 541
XX	None; The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.	Qy	1197 GCTCATATTGGTATCTGATTCATGGCTCATGCTTCTCCAGTACTTGA 1256
PS		Db	542 GCTCTCATAGTACCTATGGCTTATGCTCTGCTCATGATTTGTA 601
XX		Qy	1257 TCCATTGGCTCA 1269
XX		Db	602 CCCATGGCAGTCA 614
RESULT 14			
		ABAS1767	
		ID	ABAS1767 standard; DNA; 471 BP.
		AC	ABAS1767;
		DT	01-FEB-2002 (first entry)
		XX	Human foetal liver single exon nucleic acid probe #72:
		DE	Human foetal liver single exon nucleic acid probe #72:
		XX	Human; foetal liver; gene expression; single exon nucleic acid probe; ss. Homo sapiens.
		XX	OS
		XX	PN
		XX	W0200157277-A2.
		PD	09-AUG-2001.
		XX	XX
		PF	30-JAN-2001; 2001WO-US00669.
		XX	XX
		PR	04-FEB-2000; 2000US-0180312.
		PR	26-MAY-2000; 2000US-0207456.
		PR	30-JUN-2000; 2000US-0608408.
		PR	03-AUG-2000; 2000US-0512366.
		PR	21-SEP-2000; 2000US-023487.
		PR	27-SEP-2000; 2000US-0236359.
		PR	04-OCT-2000; 2000GB-0024263.
		XX	(MOLE-) MOLECULAR DYNAMICS INC.
		XX	Penn SG, Hanzel DK, Chen W, Rank DR;
		XX	WPI; 2001-483447/52.
		XX	Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human fetal liver -
		XX	Claim 1; SEQ ID NO 72; 639pp + sequence listing; English.
		PS	CC The invention relates to a single exon nucleic acid probe for

measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human fetal liver. The present sequence is a single exon nucleic acid probe of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published_pct_sequences.

Sequence 471 BP; 117 A; 94 C; 104 G; 156 T; 0 other;

Query Match 12.7%; Score 175.8; DB 22; Length 471;
Best Local Similarity 61.9%; Pred. No. 1.3e-43;
Matches 280; Conservative 0; Mismatches 172; Indels 0; Gaps 0;

Qy 640 AGATTTGNGCTTAATGGTATTTCCTGTGTTACCTATGGGCCAACCCCTTTGCAAT 699
Db 19 ATAGCATTCGCTGATGACATTTCCTGTATCGTTACTTATGGCCATTCTGCAT 78
Qy 700 ATGTTGCGCTATCAGATACTAAGTAGCTGACTAAAGATTGCGCTTGGCACTAGAACTAGTC 759
Db 79 ATACTGCCATTCAGATACTAAGATACTAACCTAAAGCTACGGCCGATAGAAATT 138
Qy 760 CTCTGCATCACCATCTGGCAATTGGAGATACTTCGGCCCTCCGTGATTGGTGTCTC 819
Db 139 TTCTGTTGCTGGTATGTTGGCGGTTTGAGGTATCTCACGTGTTAGTGTACTCTGGATT 198
Qy 820 TTCTCACCCACTTGAATATGGAGGGCTGTGCCCTTCCCTAGTGTCTCAACTCTGATCATC 879
Db 199 TTCAATGCACTCTGAAACTGGAGCTTACCGTTTGTAAATCATATATTGTATCA 258
Qy 880 CTCTTGTAGCCCCCTGGATTAAGTCTGGAGAAGTGTGCCCAATACATGAG 939
Db 259 TTGTTCGACCCCTGGCTGGAGTTGGAAAAAGTGGAGTCATCTTCCTGGAAACANAAA 318
Qy 940 AAAACTCTAGCCGGCTGGCAACTCTGGTGGTCAATTGTTGTTGCTATGCT 999
Db 319 AATAAATCCAAATATGGTGGTCAAGTACTGTGTTTCTGATCACGTATATGCT 378
Qy 1000 GGCAATCAACTTCTTCTCTGGTCAAGTGGTGGAGGTTGAGAGATCTCGTC 1059
Db 379 GCATCAACTTCTCTGGTCAAGTGGTGGAGAAGTGTCAAGTGAACAATAATT 438
Qy 1060 GACAAAGGGCAGAACTGGGACATATGGGCCT 1091
Db 439 GACGGGAGACAGAGGGGGCCATAGAATCC 470

RESULT 15
ABA21596 standard; DNA; 471 BP.
ID ABA21596 ;
XX 23-JAN-2002 (First entry)
DE Probe #62 for gene expression analysis in human heart cell sample.
XX Human; gene expression; heart; microarray; vascular system; probe;
KW cardiovascular disease; hypertension; cardiac arrhythmia;
KW congenital heart disease; ss.
XX Homo sapiens.
XX WO200157274-A2.
XX 09-AUG-2001.
XX 30-JAN-2001; 2001WO-US00666.
PN 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207446.
PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000US-0034263.
XX (MOLE-) MOLECULAR DYNAMICS INC.
PA Penn SG, Hanzel DK, Chen W, Rank DR;
PI XX
WPI, 2001-48899/53.
XX Single exon nucleic acid probes for analyzing gene expression in human hearts -
PT Claim 1: SEQ ID No 62; 530pp; English.
PS XX
PT The present invention relates to single exon nucleic acid probes for measuring human gene expression in a sample derived from human heart. The present sequence is one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived from the human heart via microarrays. By measuring gene expression, the probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosis diseases of the human heart and vascular system e.g. cardiovascular disease, hypertension, cardiac arrhythmias and congenital heart disease.
CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp://wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).
XX Sequence 471 BP; 117 A; 94 C; 104 G; 156 T; 0 other;

Qy 640 AGATTTGNGCTTAATGGTATTTCCTGTGTTACCTATGGGCCAACCCCTTTGCAAT 699
Db 19 ATAGCATTCGCTGATGACATTTCCTGTATCGTTACTTATGGCCATTCTGCAT 78
Qy 700 ATGTTGCGCTATCAGATACTAAGTAGCTGACTAAAGATTGCGCTTGGCACTAGAACTAGTC 759
Db 79 ATACTGCCATTCAGATACTAACCTAAAGCTACGGCCGATAGAAATT 138
Qy 760 CTCTGCATCACCATCTGGCAATTGGAGATACTTCGGCCCTCCGTGATTGGTGTCTC 819
Db 139 TTCTGTTGCTGGTATGTTGGCGGTTTGAGGTATCTCACGTGTTAGTGTACTCTGGATT 198
Qy 820 TTCTCACCCACTTGAATATGGAGGGCTGTGCCCTTCCCTAGTGTCTCAACTCTGATCATC 879
Db 199 TTCAATGCACTCTGAAACTGGAGCTTACCGTTTGTAAATCATATATTGTATCA 258
Qy 880 CTCTTGTAGCCCCCTGGATTAAGTCTGGAGAAGTGTGCCCAATACATGAG 939
Db 319 TTGTTCGACCCCTGGCTGGAGTTGGAAAAAGTGGAGTCATCTTCCTGAT 378
Qy 940 AAAACTCTAGCCGGCTGGCAACTCTGGTGGTCAATTGTTGTTGCTATGCT 999
Db 379 GCATCAACTTCTCTGGTCAAGTGGTGGAGAAGTGTCAAGTGAACAATAATT 438
Qy 1060 GACAAAGGGCAGAACTGGGACATATGGGCCT 1091
Db 439 GACGGGAGACAGAGGGGGCCATAGAATCC 470

Qy 820 TTCTCAGCCACTTGTGAAATTGAGGGCTGTGCCCTTCTGATGCTCAACTCTCTGATCATC 879
Db 199 TTCTTGCATCTCTGAAACTGAGACCTAACCGTTTGTAAATCATATATTGTATCA 258
Qy 880 CTCTTGTAGCCCCCTGGATTAAGTCTGGAGAAGTGTGCCCAATACATGAG 939
Db 319 TTGTTCGACCCCTGGCTGGAGTTGGAAAAAGTGGAGTCATCTTCCTGAT 378
Qy 940 AAAACTCTAGCCGGCTGGCAACTCTGGTGGTCAATTGTTGTTGCTATGCT 999
Db 319 ATAATTCGAAATATGGTGGTACAGTACTGCTTCTGCAACTGCTATGCT 318
Qy 1000 GGCAATCAACTTCTCTGGTCAAGTGGTGGAGGTTGAGGTGGAGAGATCTGTC 1059
Db 379 GCCATCAACTTCTCTGGTCAAGTGGTGGAGAAGTGTCAAGTGAACAATAATT 438
Qy 1060 GACAAAGGGCAGAACTGGGACATATGGGCCT 1091
Db 439 GACGGGAGACAGAGGGGGCCATAGAATCC 470

Search completed: March 30, 2003, 03:16:52
Job time : 256.403 secs